

PATENT ABSTRACTS OF JAPAN

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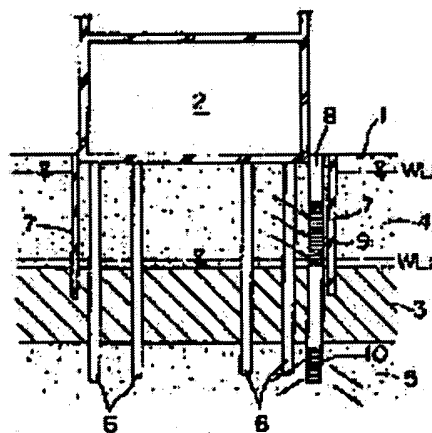
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(54) PREVENTION OF GROUND FROM LIQUEFACTION

(57)Abstract:

PURPOSE: To prevent liquefaction of the ground with the reduced underground water level in the upper water-bearing stratum by providing a cut-off wall reaching a water-impermeable layer from the upper water-bearing stratum and making a wall reaching the lower water-bearing stratum from the upper water-bearing stratum in the inside of the cut-off wall and conducting the underground water of the upper water-bearing stratum to the lower water-bearing stratum through the well.

CONSTITUTION: A building 2 is constructed on the ground 1 where an upper water-bearing stratum 4 to be in danger of liquefaction exists above the water-impermeable stratum 3 such as a clay layer and a lower water-bearing stratum 5 exists below it. And a cut-off wall 7 is formed to reach from the upper water-bearing stratum 4 to the water-impermeable stratum 3 in the surrounding ground 1 of the building 2. Next, a well 8 is made to reach from the upper water-bearing stratum 4 to the lower water-bearing stratum 5 inserting the water-impermeable stratum 3 in the inside of the cut-off wall 7. The underground water of the upper water-bearing stratum 4 is conducted to the lower water-bearing stratum 5 by the well 8 to reduce the water level of the underground water. In this way, the liquefaction of the ground 1 can be prevented in the inside of the cut-off wall 7.



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